

IN THE CLAIMS

1. (Currently Amended) A method, comprising:

receiving a design list for a plurality of network~~of~~ servers, the design list comprising functions of the network, amount of hardware for the network, type of hardware for the network and number of WAN IP addresses assigned to the network;

generating a plurality of network designs for the plurality of network servers based upon a design rule and the design list, further comprising receiving a first network design of the plurality of network designs, and wherein the design rule determines a first server in the network is a gateway server layered in a network location such that the gateway server is first in receiving all incoming data packets to the network:

configuring software and hardware settings for ~~a~~the plurality of network~~second servers~~ in the network, the software and hardware settings including switches, jumpers, IP address, links, ports and values of software parameters, the configuration of the software and hardware settings based upon the design rule and the first network design;

building a respective digital image with the software and hardware settings for each of the plurality of~~second~~ servers, each design corresponding to a digital image for a respective network server, the plurality of~~second~~ servers having a different server type than the first server and operable to support dissimilar operations; and

deploying each of the respective digital images onto the plurality of~~second~~ servers from a single user action.

2. (Previously Presented) The method of claim 1, wherein the network comprises a server farm, wherein the network handles variable workloads, and wherein all functions of the network continue to operate in the event the second server of the network fails.

Claims 3-6. (Canceled)

7. (Original) The method of claim 1, wherein the digital image is dynamically built.

8. (Previously Presented) The method of claim 7, further comprising:

deploying the dynamically built digital image over a network connection in response to a netboot request from the first server.

9. (Previously Presented) The method of claim 1, further comprising:

rebuilding the digital image for the first server in the network; and  
redeploying the digital image for the first server.

Claims 10-21. (Canceled)

22. (Currently Amended) The apparatus of claim ~~25~~<sup>20</sup>, wherein the number of WAN IP addresses is fewer than number of the servers in the network.

Claims 23-24. (Canceled)

25. (Currently Amended) A ~~computer~~ apparatus having a computer readable storage medium encoded with a set of instructions that, when executed by a processor in the computer, cause the computer to perform a method, the computer apparatus comprising:

a graphic user interface having a function to receive a design list for a plurality of ~~network-of~~ servers, the design list comprising functions of the network, amount of hardware for the network, type of hardware for the network, and number of WAN IP addresses assigned to the network;

design rule logic having design instructions, wherein the design instructions determine a first server in the network is a gateway server layered in a network location such that the gateway server is first to receive all incoming data packets to the network:

network topology logic having a function to generate a plurality of network designs for the plurality of network servers according to the design list and the design instructions, wherein a first design of the plurality of network designs is selected through the graphic user interface;

configuration logic to configure software and hardware settings for a the plurality of network ~~second~~ servers in the network, the software and hardware settings including switches, jumpers, IP address, links, ports and values of software parameters, the configuration of the software and hardware settings based upon the design instructions and the first network design;

digital image building logic to build a respective digital image with the software and hardware settings for each of the plurality of ~~second~~ servers, each design corresponding to a digital image for a respective network server, the plurality of ~~second~~ servers having a different server type than the first server and operable to support dissimilar operations; and

deployment logic to deploy each of the respective digital images onto the plurality of ~~second~~ servers from a single user action, the second server accessible to network traffic via the first server.

Claims 26-27. (Canceled)

28. (Previously Presented) The apparatus of claim 25, wherein the graphic user interface having a further function to generate the network topology for the network.

29. (Previously Presented) The apparatus of claim 25, further comprising:

a database to store one or more digital images of a server, one or more network topologies, and network configurations.

30. (Previously Presented) The method of claim 1, wherein the number of WAN IP addresses being fewer than number of servers in the network and wherein configuring network settings comprising sending a request to a Domain Name System server.

31. (Currently Amended) The apparatus of claim 2520, wherein the design rule instructing how a server in a network can or cannot be employed in the network.

32. (Currently Amended) The apparatus of claim 2520, wherein the configuring means including a Domain Name System server and a network translation software, the network translation software to route data packets to and from a virtual IP address of the network.

33. (Previously Presented) The apparatus of claim 25, wherein the design rule logic having further instructions to determine how a server in the network can or cannot be employed in the network.

34. (Previously Presented) The apparatus of claim 25, wherein the configuration logic further comprising a Domain Name System server and a network translation software, the network translation software to route data packets to and from a virtual IP address of the network.

35. (Currently Amended) The apparatus of claim 25, wherein the configuration logic installing network translation software on a third server in the network, wherein the network translation software routing data packets to and from a virtual IP address of the network .

36. (Canceled)

37. (Previously Presented) The method of claim 1, further comprising determining a server type, the server type indicative of the configured parameters.

38. (Previously Presented) The method of claim 37 further comprising determining, for each of the deployed images, cohesive network settings operable to interconnect

servers receiving the deployed images.

39. (Currently Amended) The method of claim 38 wherein deploying further comprises deploying images for a plurality of servers at substantially the same time, the plurality of servers including servers of a dissimilar server type.

40. (New) A method, comprising:

receiving design rule logic including a set of design rules indicative of links interconnecting the components,

generating a plurality of network designs for the plurality of components based upon a set of design rules and the design list, further comprising a first network design of the plurality of network designs, the design rules determining that the first network design is for a first component in the network, the first component being a gateway server layered in a network location such that the gateway server is first in receiving all incoming data packets to the network;

configuring software and hardware settings for the plurality of components in the network, the configuration of the software and hardware settings based upon the design rules and the first network design;

building a respective digital image with the software and hardware settings for each of the plurality of components, each design corresponding to a digital image for a respective component, the plurality of components having a different server type than the first server and operable to support dissimilar operations, building further comprising configuring the digital image corresponding to each network component to include the unique operations settings for the deployment network;

generating each of the digital images files for communicating with the indicated

receiving a design list for a plurality of components in a network, the design list comprising functions of a deployment network upon which the components are to be deployed, the received design indicative of the components in the network, each component responsive to a particular digital image file for performing operations based on the design list;

links to the other components; and

deploying each of the respective digital images onto the plurality of components from a single user action, digital images deployed with settings and parameters onto components such that the components operable cohesively without the need to manually adjust the settings or parameters.